

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _____

Source: _____

Date Processed by STIC: _____

10/707,039
JFWG
09/15/2005

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/707,039

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 _____ Wrapped Nucleics
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 _____ Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 _____ Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4 _____ Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
- 5 _____ Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 _____ PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 _____ Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
- Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
- 8 _____ Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 _____ Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
- 10 _____ Invalid <213>
Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
- 11 _____ Use of <220> <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 _____ PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 _____ Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFWO

RAW SEQUENCE LISTING

DATE: 09/15/2005

PATENT APPLICATION: US/10/707,039

TIME: 11:16:18

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09152005\J707039.raw

3 <110> APPLICANT: Seale, Jeffrey W.
 4 Vordtriede, Paul B.
 6 <120> TITLE OF INVENTION: Amino Acid Sequence Variant Alfalfa Antifungal Protein and
 Its Use in
 7 Plant Disease Control
 9 <130> FILE REFERENCE: 38-21(15546)
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/707,039
 C--> 11 <141> CURRENT FILING DATE: 2003-11-17
 11 <160> NUMBER OF SEQ ID NOS: 4
 13 <170> SOFTWARE: PatentIn version 3.1
 15 <210> SEQ ID NO: 1
 16 <211> LENGTH: 135
 17 <212> TYPE: DNA
 18 <213> ORGANISM: Medicago sativa
 20 <220> FEATURE:
 21 <221> NAME/KEY: CDS
 22 <222> LOCATION: (1)..(135)
 23 <223> OTHER INFORMATION:
 W--> 26 <400> 1
 27 aga aca tgt gag aat ttg gca gat aaa tat agg gga cca tgc ttt agt 48
 28 Arg Thr Cys Glu Asn Leu Ala Asp Lys Tyr Arg Gly Pro Cys Phe Ser
 29 1 5 10 15
 31 ggt tgt gac act cac tgc aca acc aaa gag aac gca gtt agt gga agg 96
 32 Gly Cys Asp Thr His Cys Thr Thr Lys Glu Asn Ala Val Ser Gly Arg
 33 20 25 30
 35 tgt agg gac gac ttc cgc tgc tgg tgt act aaa aga tgt 135
 36 Cys Arg Asp Asp Phe Arg Cys Trp Cys Thr Lys Arg Cys
 37 35 40 45
 40 <210> SEQ ID NO: 2
 41 <211> LENGTH: 45
 42 <212> TYPE: PRT
 43 <213> ORGANISM: Medicago sativa
 45 <400> SEQUENCE: 2
 47 Arg Thr Cys Glu Asn Leu Ala Asp Lys Tyr Arg Gly Pro Cys Phe Ser
 48 1 5 10 15
 51 Gly Cys Asp Thr His Cys Thr Thr Lys Glu Asn Ala Val Ser Gly Arg
 52 20 25 30
 55 Cys Arg Asp Asp Phe Arg Cys Trp Cys Thr Lys Arg Cys
 56 35 40 45
 59 <210> SEQ ID NO: 3
 60 <211> LENGTH: 135
 61 <212> TYPE: DNA
 62 <213> ORGANISM: Artificial Sequence
 64 <220> FEATURE:

Does Not Comply
 Corrected Diskette Needed

(pg-2)

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/707,039

DATE: 09/15/2005

TIME: 11:16:18

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09152005\J707039.raw

65 <223> OTHER INFORMATION: AlfAFP1 D8R
 67 <220> FEATURE:
 68 <221> NAME/KEY: CDS
 69 <222> LOCATION: (1)..(135)
 70 <223> OTHER INFORMATION: AlfAFP1 D8R
 73 <400> SEQUENCE: 3
 74 aga aca tgt gag aat ttg gca aga aaa tat agg gga cca tgc ttt agt
 75 Arg Thr Cys Glu Asn Leu Ala Arg Lys Tyr Arg Gly Pro Cys Phe Ser
 76 1 5 10 15
 78 ggt tgt gac act cac tgc aca acc aaa gag aac gca gtt agt gga agg
 79 Gly Cys Asp Thr His Cys Thr Thr Lys Glu Asn Ala Val Ser Gly Arg
 80 20 25 30
 82 tgt agg gac gac ttc cgc tgc tgg tgt act aaa aga tgt
 83 Cys Arg Asp Asp Phe Arg Cys Trp Cys Thr Lys Arg Cys
 84 35 40 45
 87 <210> SEQ ID NO: 4
 88 <211> LENGTH: 45
 89 <212> TYPE: PRT
 90 <213> ORGANISM: Artificial Sequence
 92 <220> FEATURE:
 93 <223> OTHER INFORMATION: AlfAFP1 D8R
 95 <400> SEQUENCE: 4
 97 Arg Thr Cys Glu Asn Leu Ala Arg Lys Tyr Arg Gly Pro Cys Phe Ser
 98 1 5 10 15
 101 Gly Cys Asp Thr His Cys Thr Thr Lys Glu Asn Ala Val Ser Gly Arg
 102 20 25 30
 105 Cys Arg Asp Asp Phe Arg Cys Trp Cys Thr Lys Arg Cys
 106 35 40 45

Invalid Response.
 What is the source
 of Genetic Material?

48 p/s see
 Stem #
 96 11 on Error
 135 Summary
 Sheet.

Same Error.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/707,039

DATE: 09/15/2005

TIME: 11:16:19

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\09152005\J707039.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:26 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:23